BRUHAT BANAGLORE MAHANAGARA PALIKE

Executive Engineer -yelahanka Division

Detailed Estimate

Name of the Work — **Asphalting and improvements to roads at Maruthinagara 1st main road from (Ch.450 to 892.00 mtr) in ward No- 01 of yelahanka sub division.**

Estimate Amount : 9500000.00

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	CIVIL WORKS								
1	Removing & Refixing Stone Slabs of drains and Pointing in C.M(1:3).								
	(Page No 25., I.No.5.33 of KPWD S.R 2016-17)								
		Sqm							
	Basic rate	*76.00*							
	Area Wieght age @ 6%	*4.56*							
	Total Rate in Rs	*80.56*							
	Maruthinagar 1st main road from 25th cross road to Kogilu main road								
	RHS								
	Ch: (457.9 - 510.5)		1	52.6	0.90		47.34		
	Ch: (523 - 547)		1	24	0.90		21.60		
	Ch: (553 - 578)		1	25	0.90		22.50		
	Ch: (585 - 610)		1	25	0.90		22.50		
	Ch: (616 - 640)		1	24	0.90		21.60		
	Ch: (646 - 672)		1	26	0.90		23.40		
	Ch: (677 - 702)		1	25	0.90		22.50		
	Ch: (708 - 736)		1	28	0.90		25.20		
	Ch: (743 - 781)		1	38	0.90		34.20		
	Ch: (790 - 842)	10sb fla	1	52	0.90		46.80		
	Ch: (848 - 872)		1	24	0.90		21.60		
	LHS								
	Ch: (483 - 708)		1	225	0.90		202.50		
	Ch: (708 - 736)		1	28	0.90		25.20		
	Ch: (736 - 756)		1	20	0.90		18.00		
	2nd Cross road from 1st cross road to 1st main maruthi nagar								
	LHS								
	Ch: (0 - 89)		1	89	0.75		66.75		
	RHS								
	Ch: (0 - 107)		1	107	0.75		80.25		
							701.94		
	Deduction for damaged and missing 26%						**-182.50**		
							519.44	**80.56**	**41845.73**
2	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **(Page No142., I.No.19.1 of KPWD S.R 2016-17).**								
		Cum.							
	Basic rate	*82.00*							
	Area Wieght age @ 6%	*4.92*							
	Total Rate in Rs	*86.92*							
	Desilting								
	Maruthinagar 1st main road from 25th cross road to Kogilu main road								
	RHS								
	Ch: (457.9 - 510.5)		1	52.6	0.60	0.600	18.94		
	Ch: (523 - 547)		1	24	0.60	0.600	8.64		
	Ch: (553 - 578)		1	25	0.60	0.600	9.00		
	Ch: (585 - 610)		1	25	0.60	0.600	9.00		
	Ch: (616 - 640)		1	24	0.60	0.600	8.64		
	Ch: (646 - 672)		1	26	0.60	0.600	9.36		

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	Ch: (677 - 702)		1	25	0.60	0.600	9.00		
	Ch: (708 - 736)		1	28	0.60	0.600	10.08		
	Ch: (743 - 781)		1	38	0.60	0.600	13.68		
	Ch: (790 - 842)		1	52	0.60	0.600	18.72		
	Ch: (848 - 872)	10sb fla	1	24	0.60	0.600	8.64		
	LHS								
	Ch: (483 - 708)		1	225	0.60	0.600	81.00		
	Ch: (708 - 736)		1	28	0.60	0.600	10.08		
	Ch: (736 - 756)		1	20	0.60	0.600	7.20		
	2nd Cross road from 1st cross road to 1st main maruthi nagar								
	LHS								
	Ch: (0 - 89)		1	89	0.45	0.500	20.03		
	RHS								
	Ch: (0 - 872)		1	872	0.45	0.500	196.20		
	New drain								
	Maruthinagar 1st main road from 25th cross road to Kogilu main road								
	LHS								
	Ch: (765 - 781)		1	16	1.05	0.800	13.44		
	Ch: (781 - 790)		1	9	1.05	0.800	7.56		
	Ch: (797 - 827)		1	30	1.20	0.800	28.80		
	Ch: (833 - 872)		1	39	1.20	0.800	37.44		
	24th Cross from 24th Cross to 9th Cross								
	RHS								
	Ch: (0 - 125)		1	125	1.05	0.800	105.00		
	1st Cross road from MB Bakery road to 2nd Cross								
	LHS								
	Ch: (0 - 27)		1	27	1.05	0.800	22.68		
	2nd Cross road from 1st cross road to 1st main maruthi nagar								
	LHS								
	Ch: (89 - 107)		1	18	1.05	0.800	15.12		
	Culverts								
			1	7.8	1.80	0.900	12.64		
			5	5	1.80	0.900	40.50		
							721.38	86.92	62702.09
3	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregtes @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted,in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 (Page No 12., I.No.4.2 of KPWD B.R 2016-17).								
	Basic rate	Cum. 5046.00							
	Area Wieght age @ 6%	302.76							
	Total Rate in Rs	5348.76							
	New drain								
	Maruthinagar 1st main road from 25th cross road to Kogilu main road								
	LHS								
	Ch: (457.9 - 477)		1	19.1	0.75	0.150	2.15		
	Ch: (765 - 781)		1	16	0.75	0.150	1.80		
	Ch: (781 - 790)		1	9	0.90	0.150	1.22		
	Ch: (797 - 827)		1	30	0.90	0.150	4.05		
	Ch: (833 - 872)		1	39	0.90	0.150	5.27		

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	24th Cross from 24th Cross to 9th Cross								
	RHS								
	Ch: (0 - 125)		1	125	0.75	0.150	14.06		
	1st Cross road from MB Bakery road to 2nd Cross								
	LHS								
	Ch: (0 - 27)		1	27	0.75	0.150	3.04		
	2nd Cross road from 1st cross road to 1st main maruthi nagar								
	LHS								
	Ch: (89 - 107)		1	18	0.75	0.150	2.03		
	Culverts								
			1	7.8	1.50	0.150	1.76		
			5	5	1.50	0.150	5.63		
							40.98	**5348.76**	**219212.24**
4	Providing and laying Plain /reinforced cement concrete for side drains wall and bottom thickness 15cm using M20 nominal mix concrete with OPC cement at 300kg with 20mm and down size granite metal coarse aggregate at 0.69 cum and fine aggregate at 0.43 cum machine mixed well compacted for walls at bottom including centring shuttering cost of materials HOM of machineries curing etc completeexcluding cost of steel as per MORTH specification No.1500,1700,2200 **(Page No265., I.No.37.59.2 of KPWD S.R 2016-17).**								Amount in Rs
		Cum.							
	Basic rate	***10408.00***							
	Area Wieght age @ 6%	***624.48***							
	Total Rate in Rs	***11032.48***							
	New drain								
	Raft								
	Maruthinagar 1st main road from 25th cross road to Kogilu main road								
	LHS								
	Ch: (457.9 - 477)		1	19.1	0.75	0.150	2.15		
	Ch: (765 - 781)		1	16	0.75	0.150	1.80		
	Ch: (781 - 790)		1	9	0.90	0.150	1.22		
	Ch: (797 - 827)		1	30	0.90	0.150	4.05		
	Ch: (833 - 872)		1	39	0.90	0.150	5.27		
	24th Cross from 24th Cross to 9th Cross								
	RHS								
	Ch: (0 - 125)		1	125	0.75	0.150	14.06		
	1st Cross road from MB Bakery road to 2nd Cross								
	LHS								
	Ch: (0 - 27)		1	27	0.75	0.150	3.04		
	2nd Cross road from 1st cross road to 1st main maruthi nagar								
	LHS								
	Ch: (89 - 107)		1	18	0.75	0.150	2.03		
	Culverts								
			1	7.8	1.50	0.200	2.34		
			5	5	1.50	0.200	7.50		
	Wall								
	Maruthinagar 1st main road from 25th cross road to Kogilu main road								
	LHS								
	Ch: (457.9 - 477)		2	19.1	0.15	0.700	4.01		

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	Ch: (765 - 781)		2	16	0 15	0.700	3.36		
	Ch: (781 - 790)		2	9	0 15	0.700	1.89		
	Ch: (797 - 827)		2	30	0 15	0.700	6.30		
	Ch: (833 - 872)		2	39	0 15	0.700	8.19		
	24th Cross from 24th Cross to 9th Cross								
	RHS								
	Ch: (0 - 125)		2	125	0 15	0 800	30 00		
	1st Cross road from MB Bakery road to 2nd Cross								
	LHS								
	Ch: (0 - 27)		2	27	0 15	0 800	6.48		
	2nd Cross road from 1st cross road to 1st main maruthi nagar								
	LHS								
	Ch: (89 - 107)		2	18	0 15	0 800	4 32		
	Culverts								
			2	7 8	0 20	0 800	2 50		
			10	5	0 20	0 800	8.00		
							118.49	11032.48	1307246.83
5	KSRB 4.9 2 Providing T .M.T steel reinforcement for R C C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4 6.3 for TMT Bars Fe500								
	(Page No 17., I.No.4.46.2 of KPWD S.R 2016-17).								
		Tonne							
	Basic rate	56050.00							
	Area Wieght age @ 6%	3363.00							
	Total Rate in Rs	59413.00							
	New drain								
	Taking 60kg/cum						7.11		
							7.11	59413.00	422393.45
6	Providing precast slab of 100 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc ,complete as per the direction of engineer in charge								
	Data rate								
		Sqm							
	Total Rate in Rs	1757.00							
	For damaged Drain						182.50		
	New drain								
	Maruthinagar 1st main road from 25th cross road to Koglu main road								
	LHS								
	Ch: (457.9 - 477)		1	19.1	0.75		14.33		
	Ch: (765 - 781)		1	16	0.75		12.00		
	Ch: (781 - 790)		1	9	0.90		8.10		
	Ch: (797 - 827)		1	30	0.90		27.00		
	Ch: (833 - 872)		1	39	0.90		35.10		
	24th Cross from 24th Cross to 9th Cross								

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	RHS								
	Ch: (0 - 125)		1	125	0.75		93.75		
	1st Cross road from MB Bakery road to 2nd Cross								
	LHS								
	Ch: (0 - 27)		1	27	0.75		20.25		
	2nd Cross road from 1st cross road to 1st main maruthi nagar								
	LHS								
	Ch: (89 - 107)		1	18	0.75		13.50		
							406.53	**1757.00**	**714272.16**
7	Providing precast slab of 250 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge **Data rate**								
		Sqm							
	Total Rate in Rs	***4725.00***							
	Culverts								
			1	7.8	1.50		11.70		
			5	5	1.50		37.50		
							49.20	**4725.00**	**232470.00**
8	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 **(Page No 12., I.No.4.6 of KPWD S.R 2016-17).**								
		Cum.							
	Basic rate	***5441.00***							
	Area Wieght age @ 6%	***326.46***							
		5767.46							
	Coping -SB								
	Flagging Course								
	Maruthinagar 1st main road from 25th cross road to Kogilu main road								
	RHS								
	Ch: (457.9 - 519)		2	61.1	0.10	0.075	0.92		
	Ch: (523 - 547)		2	24	0.10	0.075	0.36		
	Ch: (553 - 578)		2	25	0.10	0.075	0.38		
	Ch: (585 - 610)		2	25	0.10	0.075	0.38		
	Ch: (616 - 640)		2	24	0.10	0.075	0.36		
	Ch: (646 - 672)		2	26	0.10	0.075	0.39		
	Ch: (677 - 702)		2	25	0.10	0.075	0.38		
	Ch: (708 - 736)		2	28	0.10	0.075	0.42		
	Ch: (743 - 781)		2	38	0.10	0.075	0.57		
	Ch: (790 - 842)		2	52	0.10	0.075	0.78		
	Ch: (848 - 872)		2	24	0.10	0.075	0.36		
	LHS								
	Ch: (708 - 736)		2	28	0.10	0.075	0.42		
							5.70	**5767.46**	**32883.17**
9	KSRB 5-14 : Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200mm having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00N/mm2 confirming to IS 2185(part 1):2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing , hire charges of machineries etc., complete as per specifications.KBS No 5.4 **(Page No 25., I.No.5.28 of KPWD S.R 2016-17).**								
		Sqm							
	Basic rate	***716.00***							
	Area Wieght age @ 6%	***42.96***							
		758.96							

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	Flagging Course								
	Maruthinagar 1st main road from 25th cross road to Kegilu main road								
	RHS								
	Ch: (457.9 - 519)		2	61.1		0.200	24.44		
	Ch: (523 - 547)		2	24		0.200	9.60		
	Ch: (553 - 578)		2	25		0.200	10.00		
	Ch: (585 - 610)		2	25		0.200	10.00		
	Ch: (616 - 640)		2	24		0.200	9.60		
	Ch: (646 - 672)		2	26		0.200	10.40		
	Ch: (677 - 702)		2	25		0.200	10.00		
	Ch: (708 - 736)		2	28		0.200	11.20		
	Ch: (743 - 781)		2	38		0.200	15.20		
	Ch: (790 - 842)		2	52		0.200	20.80		
	Ch: (848 - 872)		2	24		0.200	9.60		
	LHS								
	Ch: (708 - 736)		2	28		0.200	11.20		
							152.04	**758.96**	**115392.28**
10	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork,curing,including cost of all materials, labour, hire charges of machinery, loading,unloading, lead and lift, transportation etc., complete **(Page No 25., I.No.5.30 of KPWD S.R 2016-17).**								
		No.							
	Basic rate	*313.00*							
	Area Wieght age @ 6%	*18.78*							
	Total Rate in Rs	*331.78*							
	Maruthinagar 1st main road from 25th cross road to Kegilu main road								
	RHS								
	Ch: (457.9 - 519)		1	61.1			61.10		
	Ch: (523 - 547)		1	24			24.00		
	Ch: (553 - 578)		1	25			25.00		
	Ch: (585 - 610)		1	25			25.00		
	Ch: (616 - 640)		1	24			24.00		
	Ch: (646 - 672)		1	26			26.00		
	Ch: (677 - 702)		1	25			25.00		
	Ch: (708 - 736)		1	28			28.00		
	Ch: (743 - 781)		1	38			38.00		
	Ch: (790 - 842)		1	52			52.00		
	Ch: (848 - 872)		1	24			24.00		
	LHS								
	Ch: (457.9 - 476)		1	18.1			18.10		
	Ch: (483 - 708)		1	225			225.00		
	Ch: (708 - 736)		1	28			28.00		
	Ch: (736 - 756)		1	20			20.00		
	Ch: (765 - 781)		1	16			16.00		
	Ch: (781 - 790)		1	9			9.00		
	Ch: (797 - 827)		1	30			30.00		
	Ch: (833 - 872)		1	39			39.00		
	Total length In Nos						737.20		
							1638.00		
							1638.00	**331.78**	**543455.64**
11	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Page No 182, I.No.24.1 of KPWD S.R 2016-17)								
		Sqm							
	Basic rate	*60.00*							
	Area Wieght age @ 6%	*3.60*							
	Total Rate in Rs	*63.60*							
	Kerb Painting								

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	Maruthinagar 1st main road from 25th cross road to Kogilu main road								
	RHS								
	Ch: (457.9 - 519)		1	61.1		0.250	15.28		
	Ch: (523 - 547)		1	24		0.250	6.00		
	Ch: (553 - 578)		1	25		0.250	6.25		
	Ch: (585 - 610)		1	25		0.250	6.25		
	Ch: (616 - 640)		1	24		0.250	6.00		
	Ch: (646 - 672)		1	26		0.250	6.50		
	Ch: (677 - 702)		1	25		0.250	6.25		
	Ch: (708 - 736)		1	28		0.250	7.00		
	Ch: (743 - 781)		1	38		0.250	9.50		
	Ch: (790 - 842)		1	52		0.250	13.00		
	Ch: (848 - 872)		1	24		0.250	6.00		
	LHS								
	Ch: (457.9 - 476)		1	18.10		0.250	4.53		
	Ch: (483 - 708)		1	225.00		0.250	56.25		
	Ch: (708 - 736)		1	28.00		0.250	7.00		
	Ch: (736 - 756)		1	20.00		0.250	5.00		
	Ch: (765 - 781)		1	16.00		0.250	4.00		
	Ch: (781 - 790)		1	9.00		0.250	2.25		
	Ch: (797 - 827)		1	30.00		0.250	7.50		
	Ch: (833 - 872)		1	39.00		0.250	9.75		
							184.30	**63.60**	**11721.48**
	Sub total-1								**3703595.08**
	ROAD WORKS								
12	KSRRB M300-14. Excavation for roadwork in all type of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301								
	(Page No 143., I.No.19.14 of KPWD S.R 2016-17).								
		Cum.							
	Basic rate	*46.00*							
	Area Wieght age @ 6%	*2.76*							
	Total Rate in Rs	*48.76*							
	new contruction								
	Maruthinagar 1st main road from 25th cross road to Kogilu main road								
	Ch: (457.9 - 519)		1	61.1	9.70	0.350	207.43		
	Ch: (519 - 640)		1	121	7.60	0.350	321.86		
	Ch: (640 - 743)		1	103	8.10	0.350	292.01		
	Ch: (743 - 781)		1	38	7.00	0.350	93.10		
	Ch: (781 - 827)		1	46	8.60	0.350	138.46		
	Ch: (827 - 867)		1	40	7.00	0.350	98.00		
	Ch: (867 - 872)		1	5	6.10	0.350	10.68		
	road cutting								
	Ch: (795 - 872)		1	77	1.80	0.350	48.51		
							1210.04	**48.76**	**59001.77**
13	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, crushed stone aggregates of granite/trap/basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material								
	(Page No 155., I.No.20.4.2 of KPWD S.R 2016-17).								
		Cum.							
	Basic rate	*1571.00*							
	Area Wieght age @ 6%	*94.26*							
	Total Rate in Rs	*1665.26*							
	new contruction								
	Maruthinagar 1st main road from 25th cross road to Kogilu main road								
	Ch: (457.9 - 519)		1	61.1	9.70	0.150	88.90		

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	Ch. (519 - 640)		1	121	7.60	0.150	137.94		
	Ch. (640 - 743)		1	103	8.10	0.150	125.15		
	Ch. (743 - 781)		1	38	7.00	0.150	39.90		
	Ch. (781 - 827)		1	46	8.60	0.150	59.34		
	Ch. (827 - 867)		1	40	7.00	0.150	42.00		
	Ch. (867 - 872)		1	5	6.10	0.150	4.58		
							497.80	**1665.26**	**828967.26**
14	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite/trap/basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **(Page No 158., I.No.20.18 of KPWD S.R 2016-17).**								
		Cum.							
	Basic rate	***1668.00***							
	Area Wieght age @ 6%	***100.08***							
	Total Rate in Rs	***1768.08***							
	new contruction								
	Maruthinagar 1st main road from 25th cross road to Kegilu main road								
	Ch. (457.9 - 519)		1	61.1	9.70	0.225	133.35		
	Ch. (519 - 640)		1	121	7.60	0.225	206.91		
	Ch. (640 - 743)		1	103	8.10	0.225	187.72		
	Ch. (743 - 781)		1	38	7.00	0.225	59.85		
	Ch. (781 - 827)		1	46	8.60	0.225	89.01		
	Ch. (827 - 867)		1	40	7.00	0.225	63.00		
	Ch. (867 - 872)		1	5	6.10	0.225	6.86		
	road cutting								
	Ch. (795 - 872)		1	77	1.80	0.225	31.19		
							777.89	**1768.08**	**1375364.24**
15	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM,WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502 **(Page No 161., I.No.21.6 of KPWD S.R 2016-17).**								
		Sqm							
	Basic rate	***26.00***							
	Area Wieght age @ 6%	***1.56***							
	Total Rate in Rs	***27.56***							
	new contruction								
	Maruthinagar 1st main road from 25th cross road to Kegilu main road								
	Ch. (457.9 - 519)		1	61.1	9.70		592.67		
	Ch. (519 - 640)		1	121	7.60		919.60		
	Ch. (640 - 743)		1	103	8.10		834.30		
	Ch. (743 - 781)		1	38	7.00		266.00		
	Ch. (781 - 827)		1	46	8.60		395.60		
	Ch. (827 - 867)		1	40	7.00		280.00		
	Ch. (867 - 872)		1	5	6.10		30.50		
	road cutting								
	Ch. (795 - 872)		1	77	1.80		138.60		
							3457.27	**27.56**	**95282.36**
16	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH / Chapter 5 **(Page No 161., I.No.21.2 of KPWD S.R 2016-17).**								
		Sqm							
	Basic rate	***3.00***							
	Area Wieght age @ 6%	***0.18***							
	Total Rate in Rs	***3.18***							

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	1st Cross road from MB Bakery road to 2nd Cross								
	Ch: (0 - 27)		1	27	6.70		180.90		
							180.90	**3.18**	**575.26**
17	KSRRB 500-7. Providing and applying tack coat using 80/100 grade Bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm , heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5								
	(Page No 161., I.No.21.7 of KPWD S.R 2016-17).								
	Basic rate	***11.00***							
	Area Wieght age @ 6%	***0.66***							
	Total Rate in Rs	***11.66***							
	new contruction								
	Maruthinagar 1st main road from 25th cross road to Kogilu main road								
	Ch: (457.9 - 519)		1	61.1	9.70		592.67		
	Ch: (519 - 640)		1	121	7.60		919.60		
	Ch: (640 - 743)		1	103	8.10		834.30		
	Ch: (743 - 781)		1	38	7.00		266.00		
	Ch: (781 - 827)		1	46	8.60		395.60		
	Ch: (827 - 867)		1	40	7.00		280.00		
	Ch: (867 - 872)		1	5	6.10		30.50		
	1st Cross road from MB Bakery road to 2nd Cross								
	Ch: (0 - 27)		1	27	6.70		180.90		
							3499.57	**11.66**	**40804.99**
18	KSRRB M500- 17. Providing, laying dense graded bituminous macadam using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II(50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and filler, transporting the hot mix to work site , laying to the required grade,level and alignment, rolling with wheeled , vibratory and tandeem rollers to achieve the desired compaction as per MORTH Table-500-10 including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.507								
	(Page No 163., I.No.21.17.6 of KPWD S.R 2016-17).								
		Cum.							
	Basic rate	***6071.00***							
	Area Wieght age @ 6%	***364.26***							
	Total Rate in Rs	***6435.26***							
	new contruction								
	Maruthinagar 1st main road from 25th cross road to Kogilu main road								
	Ch: (457.9 - 519)		1	61.1	9.70	0.050	29.63		
	Ch: (519 - 640)		1	121	7.60	0.050	45.98		
	Ch: (640 - 743)		1	103	8.10	0.050	41.72		
	Ch: (743 - 781)		1	38	7.00	0.050	13.30		
	Ch: (781 - 827)		1	46	8.60	0.050	19.78		
	Ch: (827 - 867)		1	40	7.00	0.050	14.00		
	Ch: (867 - 872)		1	5	6.10	0.050	1.53		
	road cutting								
	Ch: (795 - 872)		1	77	1.80	0.050	6.93		
							172.86	**6435.26**	**1112421.57**
19	KSRRB M500- 19. Providing, laying bituminousConcrete using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II(30mm to 45mm), crushed aggregates of specified grading premixed with 5.4% VG 30 grade bituminous binder and filler , transporting the hot mix to work site , laying to the required grade,level and alignment, rolling with wheeled , vibratory and tandeem rollers to achieve the desired compaction as per MORTH Table-500.9 including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.509								
	(Page No 165., I.No.21.22.6 of KPWD S.R 2016-17).								
		Cum.							
	Basic rate	***6859.00***							

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	Area Wieght age @ 6%	*411.54*							
	Total Rate in Rs	*7270.54*							
	new contruction								
	Maruthinagar 1st main road from 25th cross road to Kogilu main road								
	Ch: (457 9 - 519)		1	61 1	9 70	0 040	23 71		
	Ch: (519 - 640)		1	121	7 60	0 040	36 78		
	Ch: (640 - 743)		1	103	8 10	0 040	33 37		
	Ch: (743 - 781)		1	38	7 00	0 040	10 64		
	Ch: (781 - 827)		1	46	8 60	0 040	15 82		
	Ch: (827 - 867)		1	40	7 00	0 040	11 20		
	Ch: (867 - 872)		1	5	6 10	0 040	1 22		
	1st Cross road from MB Bakery road to 2nd Cross								
	Ch: (0 - 27)		1	27	6 70	0 040	7 24		
							139.98	**7270.54**	**1017750.55**
20	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 4kms. **.(Refer Table. Page No.140)**								
		Cum.							
	Basic rate	*80.80*							
	Total Rate in Rs	*80.80*							
				For item no	2		721 38		
				For item no	12		1210 04		
							1931.42	**80.80**	**156058.85**
	Sub total-1								**4686226.85**
	ROAD FURNITURES								
21	KSRRB M800-13 Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC 35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (Page No 185, I No 24.15 of KPWD S.R 2016-17)								
		Sqm							
	Basic rate	**512.00**							
	Area Wieght age @ 6%	*30.72*							
	Total Rate in Rs	*542.72*							
	Road Marking								
	new contruction								
	Maruthinagar 1st main road from 25th cross road to Kogilu main road								
	Ch: (457.9 - 519)		2.5	61.1	0.10		15.28		
	Ch: (519 - 640)		2.5	121	0.10		30.25		
	Ch: (640 - 743)		2.5	103	0.10		25.75		
	Ch: (743 - 781)		2.5	38	0.10		9.50		
	Ch: (781 - 827)		2.5	46	0.10		11.50		
	Ch: (827 - 867)		2.5	40	0.10		10.00		
	Ch: (867 - 872)		2.5	5	0.10		1.25		
	1st Cross road from MB Bakery road to 2nd Cross								
	Ch: (0 - 27)		2	27	0.10		5.40		
							108.93	**542.72**	**59115.78**

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
22	KSRRB M800-35. Supply and installtion of moulded Shank Raised Pavement Markers made of polycarbonate and ABS (Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97 - DO III Dt 11.06.1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 sqcm on each side and the slope to the base shall be 35 degree. The srength of detachment of the integrated cylindrical shanks, (of diameter not less than 19mm and height not less than 30mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer with 2 years warranty for the reflectivity from the original manufacturer is mandatory along with necessory test certification from the certified laboratory. Third party test certificates from a reputed test laboratory shall be submitted with seal and Signature in Originals. (Page No 189., I.No 24.41 of KPWD S.R 2016-17).								
		No.							
	Basic rate	339.00							
	Area Wieght age @ 6%	20.34							
	Total Rate in Rs	359.34							
	Edges @9mc/c								
	Maruthinagar 1st main road from 25th cross road to Kogilu main road								
	Ch: (457.9 - 519)		2	61.1			122.20		
	Ch: (519 - 640)		2	121			242.00		
	Ch: (640 - 743)		2	103			206.00		
	Ch: (743 - 781)		2	38			76.00		
	Ch: (781 - 827)		2	46			92.00		
	Ch: (827 - 867)		2	40			80.00		
	Ch: (867 - 872)		2	5			10.00		
	total length						828.20		
	6mc/c in nos						**138.00**		
	centre @9mc/c								
	Maruthinagar 1st main road from 25th cross road to Kogilu main road								
	Ch: (457.9 - 519)		1	61.1			61.10		
	Ch: (519 - 640)		1	121			121.00		
	Ch: (640 - 743)		1	103			103.00		
	Ch: (743 - 781)		1	38			38.00		
	Ch: (781 - 827)		1	46			46.00		

Sl. No.	Description of item	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
	Ch: (827 - 867)		1	40			40.00		
	Ch: (867 - 872)		1	5			5.00		
	total length						414.10		
	9mc/c in nos						46.00		
							184.00	359.34	66118.56
	Sub Total-3								125234.34
	Total								8515056.28
23	Cost towards Preperation of DPR,PMC/QC @ 2%								170301.13
24	Cost of Plastic@ 8% of bitumen qty for BC	Kg	1	1579.01				27.00	42633.16
25	Cost towards KIRDL Charges @ 9%								766355.07
26	Misellenous and other charges								5654.37
	Grand Total								9500000.00

Certificate:-

1. That the workspot has been inspected and provisions made in the estimate are adequate and necessary
2. Work spot comes with in the Bruhat Bangalore Mahanagara Palike Limits.
3. That estimate is based on the PWD SR of 2016-17
4. The work is not split up
5. These works are not taken up in any grants and free from defect liability period
6. Earlier improvements taken up in the proposed roads are recorded in road history

Consultant:
For M/s Mecadez core technologies pvt ltd

Asst. Engineer
Ward No:1
BBMP

AEE
yelahanka Sub division
BBMP

Executive Engineer
yelahanka division
BBMP

Administrative Sanction for Rs. 95.00 lakhs
Ninty Five Lakhs - Only
is accorded under head P-3089 -
Registered as CE No. Subject to conditions
No EE/YNK/AA/13/17-18 29-6-17
Executive Engineer

Technical Sanction
Accorded For 95.00 lakhs.
Head of A/C P3089
CER NO : 53 **Dt:** 29-06-17

TA CE (YNK)